

PATENT APPLICATION

**WHAT IS CLAIMED IS:**

- 1        1. A method comprising;  
2              obtaining a base signal including a plurality of signal components;  
3              performing a pyramidal decomposition of the base signal to generate a first  
4              decomposed signal;  
5              increasing the ratio of a desired signal component of the first decomposed  
6              signal to other signal components of the first decomposed signal to  
7              generate a first modified signal; and  
8              recomposing the first modified signal to generate an improved base signal.
  
- 1        2. The method as in Claim 1, wherein increasing the ratio includes increasing the  
2              desired signal component.
  
- 1        3. The method as in Claim 2, wherein increasing the desired signal component is  
2              performed by guiding a sheep artifact with a shepherd artifact.
  
- 1        4. The method as in Claim 1, wherein increasing the ratio includes filtering the  
2              other signal components
  
- 1        5. The method as in Claim 4, wherein filtering is includes using a match blur.
  
- 1        6. The method as in Claim 4, wherein filtering includes streak removal.
  
- 1        7. The method as in Claim 1, further including:  
2              performing a pyramidal decomposition of the first modified signal to generate  
3              a second decomposed signal;  
4              increasing the ratio of a desired signal component of the second decomposed  
5              signal to other signal components of the second decomposed signal to

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6                   generate a second modified signal; and  
7                   recomposing the modified second decomposed signal to generate a first  
8                   recomposed signal.

1       8. The method as in Claim 7, further including:  
2                   combining the first recomposed signal with the second modified signal to  
3                   generate a first improved signal.

1       9. The method as in Claim 7, further including:  
2                   combining the first recomposed signal with the second decomposed signal to  
3                   generate a first improved signal.

1       10. The method as in Claim 1, wherein said base signal is a digital representation  
of an analog signal.

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1       11. A method comprising;  
2           obtaining a digital base image, the base image including a plurality of image  
3           components;  
4           performing a first pyramidal decomposition of the base image to generate a  
5           first decomposed image;  
6           increasing the ratio of a desired image component of the first decomposed  
7           image to other image components of the first decomposed image to  
8           generate a first modified image;  
9           performing a pyramidal decomposition of the first modified image to generate  
10          a second decomposed image;  
11          increasing the ratio of a desired image component of the second decomposed  
12          image to other image components of the second decomposed image to  
13          generate a second modified image;  
14          recomposing the second modified image to generate a first recomposed image;  
15          combining the first recomposed image with the first modified image to  
16          generate an improved first image;  
17          recomposing the improved first image to generate an improved base image.

1       12. The method as in Claim 11, wherein increasing the ratio includes increasing  
2           the desired image component.

1       13. The method as in Claim 12, wherein increasing the desired image component  
2           is performed by guiding a sheep artifact with a shepherd artifact.

1       14. The method as in Claim 11, wherein increasing the ratio includes filtering the  
2           other image components

1       15. The method as in Claim 14, wherein filtering is includes using a match blur.

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16. The method as in Claim 15, wherein filtering includes streak removal.

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- 1       17. A digital film development system comprising:  
2           a film processing system, said film processing system including an image  
3           capturing station capable of obtaining sets of data representing an  
4           image formed in film ; and  
5           a data processing system, said data processing system including:  
6            a processor;  
7            memory operably coupled to said processor; and  
8            a program of instructions capable of being stored in said memory and  
9            executed by said processor, said program of instructions  
10           including instructions for:  
11            obtaining a base signal including a plurality of signal  
12            components;  
13            performing a pyramidal decomposition of the base signal to  
14            generate a first decomposed signal;  
15            increasing the ratio of a desired signal component of the first  
16            decomposed signal to other signal components of the  
17            first decomposed signal to generate a first modified  
18            signal; and  
19            recomposing the first modified signal to generate an improved  
20            base signal.
- 1       18. The method as in Claim 17, wherein increasing the ratio includes increasing  
2           the desired signal component.
- 1       19. The method as in Claim 18, wherein increasing the desired signal component  
2           is performed by guiding a sheep artifact with a shepherd artifact.
- 1       20. The method as in Claim 17, wherein increasing the ratio includes filtering the  
2           other signal components

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1        21. The method as in Claim 20, wherein filtering includes using a match blur.

1        22. The method as in Claim 20, wherein filtering includes streak removal.

2        23. The method as in Claim 17, further including:

3              performing a pyramidal decomposition of the first modified signal to generate  
4              a second decomposed signal;

5              increasing the ratio of a desired signal component of the second decomposed  
6              signal to other signal components of the second decomposed signal to  
7              generate a second modified signal; and

8              recomposing the modified second decomposed signal to generate an improved  
9              first decompose a first recomposed signal.

1        24. The method as in Claim 23, further including:

2              combining the first recomposed signal with the second modified signal to  
3              generate a first improved signal.

1        25. The method as in Claim 23, further including:

2              combining the first recomposed signal with the second decomposed signal to  
3              generate a first improved signal.

1        26. The method as in Claim 1, wherein said base signal is a digital representation  
2              of an analog signal.

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1        27. A digital image tangibly embodied in a computer readable medium, said  
2                  digital image generated according to a method comprising:  
3                  obtaining a digital base image, the base image including a plurality of  
4                  image components;  
5                  performing a first pyramidal decomposition of the base image to  
6                  generate a first decomposed image;  
7                  increasing the ratio of a desired image component of the first  
8                  decomposed image to other image components of the first  
9                  decomposed image to generate a first modified image;  
10                 performing a pyramidal decomposition of the first modified image to  
11                 generate a second decomposed image;  
12                 increasing the ratio of a desired image component of the second  
13                 decomposed image to other image components of the second  
14                 decomposed image to generate a second modified image;  
15                 recomposing the second modified image to generate an improved first  
16                 first recomposed image;  
17                 combining the first recomposed image with the first modified image to  
18                 generate an improved first image;  
19                 recomposing the improved first image to generate an improved base  
20                 image.

1        28. The digital image as in Claim 27, wherein increasing the ratio includes  
2                 increasing the desired image component.

1        29. The digital image as in Claim 28, wherein increasing the desired image  
2                 component is performed by guiding a sheep artifact with a shepherd artifact.

1        30. The digital image as in Claim 28, wherein increasing the ratio includes  
2                 filtering the other image components

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- 1        31. The digital image as in Claim 30, wherein filtering includes using a match
- 2              blur.
  
- 1        32. The digital image as in Claim 30, wherein filtering includes streak removal.